CHAPTER 90: CRITICAL AREAS UPDATE JANUARY 28, 2016

PLANNING COMMISSION AND HOUGHTON COMMUNITY COUNCIL JOINT MEETING

INTRODUCTION

- Growth Management Act (GMA) require Best Available Science (BAS) to protect critical areas:
 - Wetlands: Department of Ecology guidance on BAS, including rating system and buffers
 - o Streams: BAS on buffers and WAC 222-16-030 for stream classification system
 - Endangered, threatened or sensitive species: GMA requires protection of habitat
 - o Priority Habitats and Species: GMA optional consideration of protection for local sensitive species
 - o Frequently flooded areas: Generally GMA consistent but some minor amendments will be made
 - o Geologically Hazardous Areas: Meet GMA but will update mapping and then review regulations after Chapter 90
- If Kirkland does not use accepted BAS guidance, must do scientific study to defend alterative approach

REVIEW PROCESS

- Review Technical Reports (The Watershed Company)
 - Best Available Science Report
 - Gap Analysis
- Discuss key policy issues for direction on code amendments
- Review draft code amendments
- Hold hearing and make recommendation to City Council
- Public Outreach: notice, web site, listserv, briefing before KAN, open houses, study sessions and hearing

COMPLIANT UNDER GMA

- Review City amendments for consistency with GMA
 - o Department of Commerce lead GMA review agency
 - Department of Ecology
 - Department of Fish and Wildlife
 - Puget Sound Regional Council
- Muckleshoot Tribe can comment.
- Amendments can be challenged before the state Growth Management Hearings Board

EXISTING STRUCTURES AND IMPROVEMENTS

- Existing structures and improvements will not be affected by the new regulations. They are "grandfathered" in.
- New structures, including decks, patios and sheds, enlargements of existing structures or new landscaping with non-native vegetation would be restricted if located in a buffer
- City does have some discretion on new provisions for non-conformances

BACKGROUND

- Most of the current CAO dates back to 1992. The City did not revise the CAO during the last GMA update.
- The City's **SMP** was adopted in 2010 and did include updated regulations for critical areas within shoreline jurisdiction.
- To meet protection standards documented in the best available science, both wetland and stream buffers will need to be increased.
- This update will bring consistency with GMA throughout the City, not just shoreline areas.



TIMELINE

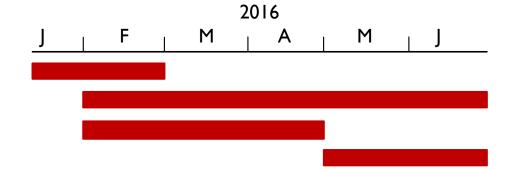
- Work Completed To-Date (2015)
 - Technical Reports
 - BAS Review
 - Gap Analysis
 - Review of Mitigation Effectiveness in Kirkland
- To Be Completed (2016)

Draft regulatory revisions	Jan – April 2016
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Public Involvement (open houses)Feb – July 2016

Planning Commission Review
 Feb – May 2016

City Council Review June – July 2016



CRITICAL AREAS

Addressed in BAS/Gap Analysis

- Wetlands
- Streams
- Wildlife Habitat
- Frequently Flooded Areas

Not Addressed in BAS/Gap Analysis

- KZC, Chapter 85, Geologically Hazardous Areas separate evaluation
- Critical Aquifer Recharge Areas- none documented in Kirkland

WETLANDS

- Functions of wetlands and buffers
 - Water quality
 - Hydrology
 - Wildlife
- Delineation
- Rating
 - 2014 Ecology Rating



Data Sources: WA Dept of Fish and Wildlife (WDFW), City of Kirkland GIS (KGIS, downloaded 11/30/2015), Esri.
Date: 12/11/2015

WETLANDS

Buffers

Current wetland buffers in KZC 90

Wetland type	Buffer in primary basin (feet)	Buffer width in secondary basin (feet)
I	100	75
2	75	50
3	50	25

Current wetland buffers in SMP

Wetland Category	Range of Buffer widths based on habitat score (feet)
I: Bogs	215
I:All others	125-215
II	100-200
III	75-125
IV	50

Setbacks

• Recommend: Retain existing 10 ft setback

Ecology guidance on wetland buffers

Wetland Category	Range of Buffer widths based on habitat score (feet)
I: Bogs	250-300
I:All others	100-300
II	100-300
III	80-300
IV	55



STREAMS

- Buffer functions
 - Water Quality (nutrients, sediment, pollutants)
 - Temperature
 - Habitat (instream and terrestrial)
- Delineation
- Classification- DNR Stream Typing
 - Type S (<u>S</u>horelines of the State)- addressed under shoreline buffers in SMP
 - Type F (<u>Fish bearing</u>)
 - Type Np (Non-fish bearing perennial)
 - Type Ns (<u>N</u>on-fish bearing <u>s</u>easonal)



Data Sources:

- 1. City of Kirkland GIS, downloaded 11/30/2015.
- The Watershed Company. August 2014. Fish Passage at City of Kirkland Road and Trail Stream Culverts-Preliminary Assessments.
- Washington Department of Fish and Wildlife, July 2015. Fish Passage Barrier Inventory. Service layer source: Esri

Date: 12/11/2015

STREAMS

Buffers

Current stream buffers in KZC 90

Stream Class	Buffer width for streams in primary basin (feet)	Buffer width for streams in secondary basin (feet)
Α	75	N/A
В	60	50
С	35	25

Current stream buffers applicable to annexation area in SMP

Stream Type	Buffer width (feet)
F	115
N	65
O (Other)	25

Setbacks

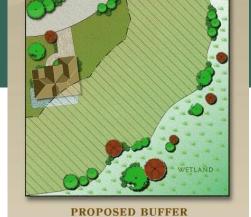
Retain existing 10 ft setback

Range of stream buffers consistent with BAS

Stream Type	Sample Buffer Ranges
F	100 - 165 feet
Np	50 - 65 feet
Ns	50 - 65 feet



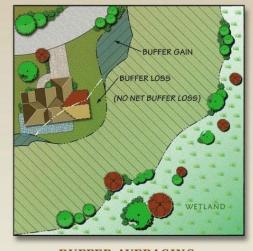
BUFFER MODIFICATIONS



- Allowed uses
 - Access paths
 - Minor site investigative work
 - Restoration activities
- Buffer averaging and reduction
 - Recommend: Revise from maximum 33% reduction to maximum 25% reduction
- Incentives for restoration
 - Recommend: buffer flexibility with stream daylighting, meandering







BUFFER AVERAGING

MITIGATION

Mitigation sequencing



- Review of Mitigation in Kirkland
 - Consistent maintenance and monitoring important to success
 - Trend toward increasing success rate
 - Enforcement time consuming for city staff
- Monitoring and maintenance security/enforcement
 - Recommend: Alternative security to assure maintenance

Results of Kirkland Mitigation Review

Percent of sampled projects:		
Released on-schedule (Year 5)	55%	
Released in Year-6	10%	
Released in Year-7	10%	
Outcome unknown	15%	
Monitoring in-progress	10%	

MITIGATION

Mitigation Alternatives

Permittee-responsible on-site

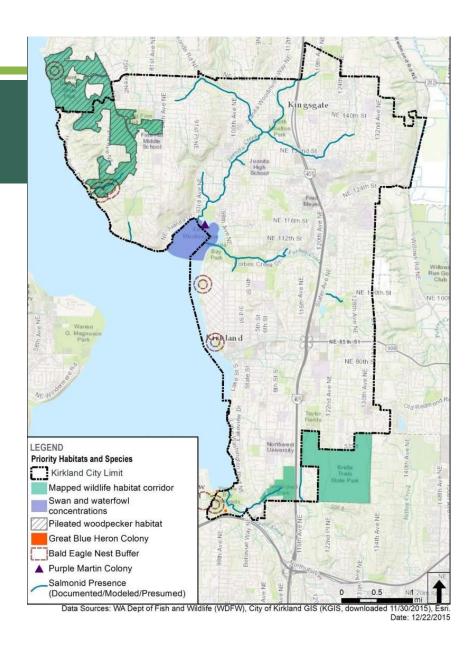
- Direct replacement of functions
- May not be feasible at constrained sites
- City oversight
- Reasonable Use Exception
 - Recommend: allowing use of in-lieu fee and mitigation banks

Third-party off-site (mitigation bank or in-lieu fee program)

- Urban → Rural
- Watershed priorities
- More agency oversight
- Higher cost (account for land purchase)

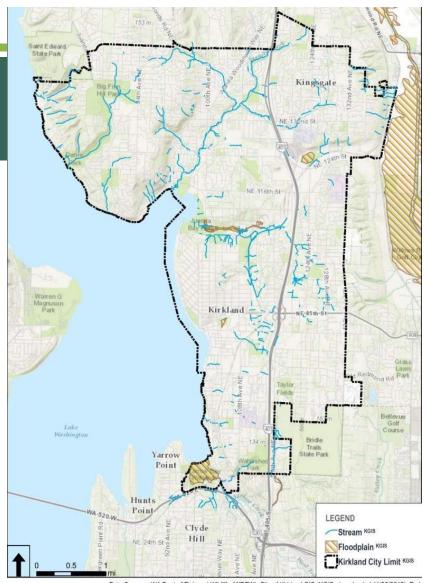
WILDLIFE HABITAT

- Endangered, Threatened, and Sensitive Species (Required)
 - Bald Eagle (Sensitive)- 5 mapped nest sites near Lake Washington
 - Pileated Woodpecker (Sensitive)- Breeding area in O.O.
 Denny Park, Big Finn Hill Park, St. Edwards State Park, and limited surrounding area
 - Management recommendations from WDFW
- Species and Habitats of Local Importance (City-Determined)
 - Recommend: develop criteria and process for designation in future



FREQUENTLY FLOODED AREAS

- 4 occurrences in Kirkland
- Most in large wetlands on City land (Forbes Creek, Yarrow Creek, Totem Lake) and one in Peter Kirk Ball Fields
- Current code references Flood Damage Prevention
- No significant changes needed



Data Sources: WA Dept of Fish and Wildlife (WDFW), City of Kirkland GIS (KGIS, downloaded 11/30/2015), Esri.
Date: 12/11/2015

REGULATORY FLEXIBILITY

- Exceptions
 - Utility and roadway maintenance
 - Maintenance and repair of existing structures
 - Emergency measures
- Modifications to maximum development potential formula
 - Recommend: revise density formula and encourage clustering to maintain current density allowance to account for wider buffers
- Non-conforming uses

NEXT STEPS

- KAN briefing February 10, 2016
- Council briefing February 16, 2016
- Planning Commission study sessions: issues and draft code amendments
 - Feb 25, 2016
 - March 24, 2016
 - April 28, 2016
 - May 26, 2016
 - June joint hearing if completed review draft code amendments
- Houghton Community Council: study sessions: code amendments
 - April 25, 2016 and May 23, 2016